

Candidate Name \_\_\_\_\_

Centre Number

Candidate  
Number

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**International General Certificate of Secondary Education**  
**UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE**  
**PHYSICS**  
PAPER 5 Practical Test  
ANSWER BOOKLET  
**OCTOBER/NOVEMBER SESSION 2001**

**0625/5**

1 hour 15 minutes

**TIME** 1 hour 15 minutes

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in the answer booklet.

**FOR EXAMINER'S USE**

<b>1</b>	
<b>2</b>	
<b>3</b>	
<b>4</b>	
<b>TOTAL</b>	

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**This answer booklet consists of 7 printed pages and 1 blank page.**

**1 METHOD 1**

(a) Record of  $l$  .....

(b) Record of  $l_0$  .....

(c) Record of  $S$  .....

(e) Record of  $T$  .....

(f) Calculation of  $V_0$  .....

(g) Calculation of  $V$ , the volume of the rod, using the equation:

$$V = V_0 \times \frac{l}{l_0}$$

$V =$  .....

[8]

**METHOD 2**

(a) Record of reading(s) taken and calculation(s) to determine  $c$ , the circumference of the rod.

$c =$  .....

[4]

(b) Record of  $l$  .....

(c) Calculation of  $V$ , the volume of the rod, using the equation:

$$V = 0.08 \times l \times c^2$$

$V =$  .....

[3]

[Total : 15]

2 (a)–(g)

lamp	$I/$	$V/$	$R/$
<b>L</b>			
<b>M</b>			
<b>N</b>			
<b>L, M and N</b>			

[12]

(h) Circuit diagram

[3]

[Total : 15]

4

3

(j)  $a =$  .....

$b =$  .....

$c =$  .....

$d =$  .....

[4]

(k) Calculation of  $n$  using the equation  $n = \frac{a \times d}{b \times c}$

$n =$  .....

[2]

(l) Statement of **one** precaution that you took

.....

Explanation of the precaution

.....

.....

.....

[2]

**Tie your ray trace sheet into this Answer Booklet opposite this page.**

[7]

[Total : 15]

**Tie your ray trace sheet in here.**

4 (a), (b)

Thermometer A

$t/$	$\theta/$
0	
30	
60	
90	
120	
150	

(c)

Thermometer B

$t/$	$\theta/$
0	
30	
60	
90	
120	
150	

[5]

(f) Which thermometer cooled more quickly?

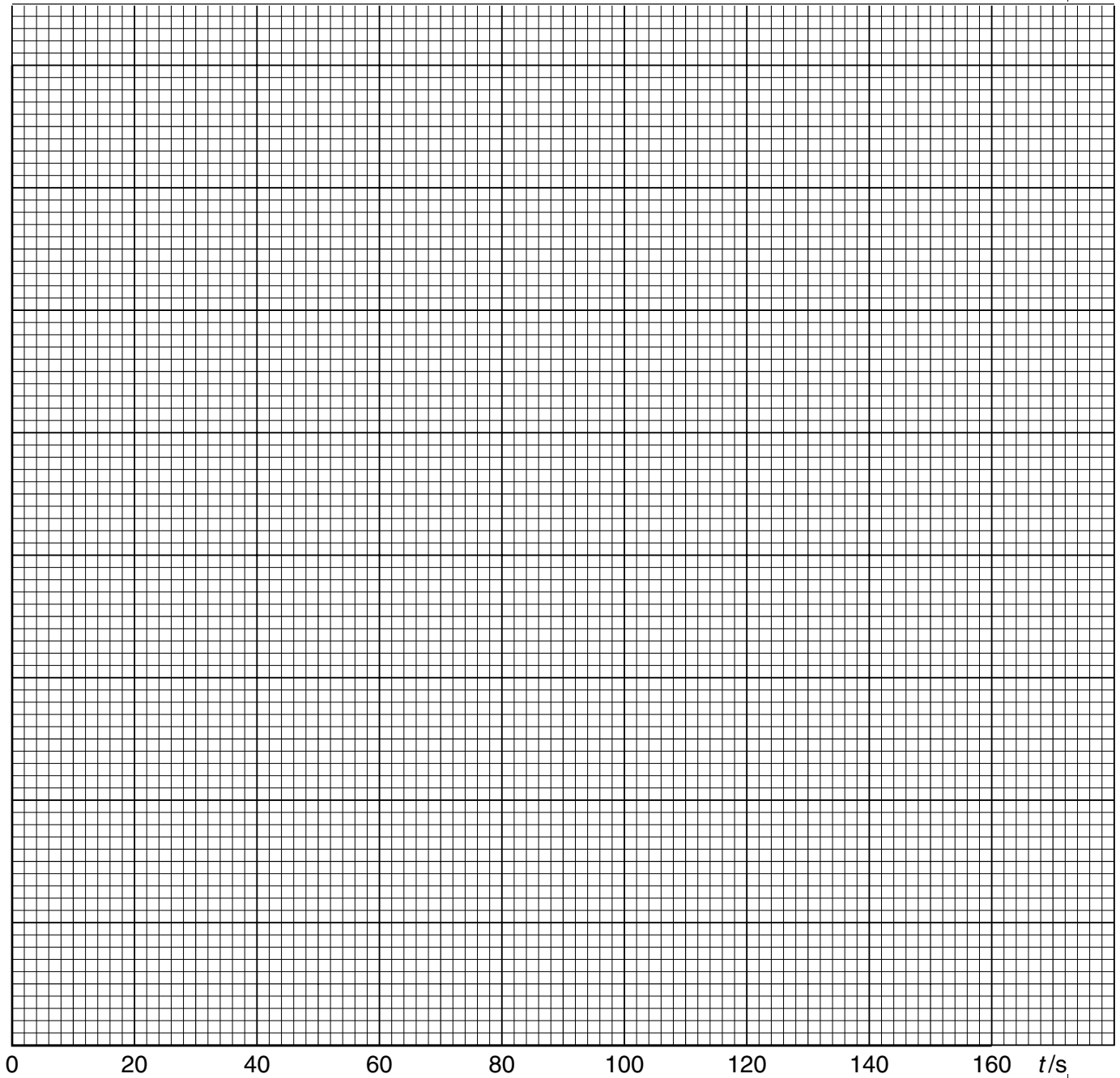
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[1]

Justification of your answer

.....

.....[2]



[7]

[Total : 15]

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